CERTIFICATE

Zone: Yelahanka Zone

Division : Executive Engineer project division, yelahanka zone.

Job Code No: 006-20-000179

Name of the Work : Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06

Contractor Name: Sri.Putta Swamy Gowda

Work Order No: EE (Project)/Ynk zone/WO/143/2020-21

Running Account Bill: 2nd and Part Bill.

Work Completed by Contractor: Rs.**37009357.19/-**
(Excluding GST)

This is certify that all the items of Works have been carried out satisfactorily as per Specifications and Confirm to MoRTH.

For M/s.

(Authorized Signatory)
Project Management Consultant

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PROJECT MANAGEMENT CONSULTANT REPORT

Project Name: - Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06

Client:- Executive Engineer, project division yelahanka zone, BBMP

Contractor / Agency:- Sri.PuttaSwamyGowda

Date of Inspection: 09-07-2021

Inspected by: Assistant Engineer, Consultants, Executive Engineer, BBMP,Banglore

Sl.No	Description	Unit	Qty	Comments / Observation
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33,KPWD SR 2018-19)	Sqm	1547.10	Work done up to the billed quantity and quality is satisfactory
2	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(I No-19.1, P No-143), 10km lead	Cum	2797.87	Work done up to the billed quantity and quality is satisfactory

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3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (P.No-27,I No-5.31.1, KPWD SR 2018-19), 7.5cms thick	Sqm	836.48	Work done up to the billed quantity and quality is satisfactory
4	KSR8 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs. with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. (P.No-13,I No-4.2,KPWD SR 2018-19)	Cum	347.01	Work done up to the billed quantity and quality is satisfactory
5	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271,KPWD SR 2018-19)	Cum	732.95	Work done up to the billed quantity and quality is satisfactory
6	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.(I No-28.8.2,P No-229)	Tonne	49.23	Work done up to the billed quantity and quality is satisfactory
7	Providing and Fixing pre cast covering Slab 100mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportationetc ,complete.As per Engineer incharge. (Data Rate)	Sqm	1532.87	Work done up to the billed quantity and quality is satisfactory
8	Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)	Sqm	400.11	Work done up to the billed quantity and quality is satisfactory

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9	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143,KPWD SR 2018-19), 10kms lead	Cum	1736.21	Work done up to the billed quantity and quality is satisfactory
10	KSRRB 300-46. Scarifying by mechanical means stone metal crust 50mm to 100mm thick by along with 20mm premix carpet / surface dressing and stacking of old serviceable materials including cost of all labour charges, HOM complete as per specifications.(P.No-146,I No-19.52)	Sqm	12951.24	Work done up to the billed quantity and quality is satisfactory
11	Providing, laying, spreading and compacting Stone dust / Grit 4.75 mm to 0.075 mm specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers. (P.No-II,Sl No-45)	Cum	1921.82	Work done up to the billed quantity and quality is satisfactory
12	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18)	Cum	4837.92	Work done up to the billed quantity and quality is satisfactory
13	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications Clause 502 of MORTH V revision(P.No-158,I No-21.6), issue rate dated 03-01-2020	Sqm	18917.20	Work done up to the billed quantity and quality is satisfactory

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17	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminus binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic)(P.No-171,I No-21.78.12), issue rate dated 03-01-2020	Cum	756.69	Work done up to the billed quantity and quality is satisfactory
19	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials upto a lead of 1000 metrers, stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202.(I No-18.47,P No-140)	Cum	829.98	Work done up to the billed quantity and quality is satisfactory

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QUALITY CHECK ABSTRACT

Ref. No.: Date:

Project Name: -Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06

Client:- Executive Engineer, project division yelahanka zone, BBMP

Contractor / Agency:- Sri.PuttaSwamyGowda

Work Order No: EE(Project)/YNK Zone/WO/143/2020-21

Sl No	Type of Construction	Unit	Quantity	Test
1	Cement Physical Tests	cum	347.01	Test as per [IS:4031 Part 1 to 5]
2	Coarse and Fine Aggregates	Cum	347.01	Test as per [IS: 2386:1963 (RA 2016)] i)Gradation ii) Water Absorption
3	Coarse Aggregate	Cum	347.01	i)Aggregate Impact Test [IS: 2386 1963 Part 4 (RA 2016)]

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4	Core Test on Precast Concrete Slab (100 mm Thick)	Sqm	1532.87	Compressive Strength Test as per [IS: 516-1959(RA 2018)] SP-24:1983
5	Core Test on Precast Concrete(250mm Thick)	Sqm	400.11	Compressive Strength & core Test as per [IS: 516-1959(RA 2018)] SP-24:1983
6	wet mix macadam	Cum	4837.92	Compressive Strength (Core Test) Test as per [IS:516-1959 RA1999], SP-24:1983
7	Soil Sub Grade	Cum	1736.21	Density of sub Grade /Soil
8	Primer Coat	Sqm	18917.20	Determination test and Spread test
9	Bituminous concrete	Cum	756.69	i) Bituminous extraction ii)Gradation & sieve analysis

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TEST REPORT

Tests on Cement

[IS:4031 – Part 1 to 5]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 01**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	SRI.PUTTA SWAMY GOWDA	**Date:**	27/01/2021
Sample Supplied by:	Agency / Contractor		

The test results conducted on the cement sample are as follows:

Sl No	Description	Test Method as per IS Standards	Test Result	Standard Requirements	Remarks
1	Fineness of Cement	IS 4031 (Part-1)	3.1%	Obtained Test Results Should Be Less Than 10%	OPC
2	Initial Setting Time	IS 4031 (Part-5)	126Minutes	Obtained Test Results Should not be less than 30 minutes	
3	Final Setting Time	IS 4031 (Part-5)	343Minutes	Obtained Test Results Should not be more than 600 minutes	
4	Soundness	IS 4031 (Part-3) by Le-Chatelier method	3.3 mm	Not more than 10mm	
5	Standard Consistency	IS-4031 (Part-4)	28%	Obtained Test results Should be 20% to 30%	

Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.

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Ref.No:MC

Gradation Test on Fine Aggregate

[IS:383-2016]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 02**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	**Date**	27/01/2021
Sample Supplied by:	Agency / Contractor		
Material Tested:	Fine Aggregate	**Total weight taken:**	1500 gms

The test results conducted on the fine aggregate sample are as follows:

IS. Sieve size (mm)	Wt. retained (g)	Cumulative wt. retained (g)	% Cumulative wt. retained	% Cumulative wt. passing	Specification as IS 383-2016
10	0	0	0	100	100
4.75	75	75	5.00	95.00	90 to 100
2.36	134	209	13.93	86.07	75 to 100
1.18	324	533	35.53	64.47	55 to 90
600 Micron	350	883	58.87	41.13	35 to 59
300 Micron	329	1212	80.80	19.20	8 to 30
150 Micron	267	1479	98.60	1.40	0 to 10
Pan	21	1500	100	0.00	0
Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.					

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Ref.No:MC

TEST REPORT

Specific Gravity of Fine Aggregates

IS:2386(PART3):1963(RA 2016)

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 03**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	**Date:**	29/01/2021
Sample Supplied by:	Agency / Contractor		
Material Tested:	Fine Aggregate		

The test results conducted on the fine aggregate sample are as follows:

Sl no	Description	Sample weight	Test Method As Per IS 2386(Part 3):1963(RA 2016)
1	Weight of Saturated dry sample (C),gm	500	**Standard Requirements (2 to 4)**
2	Weight of Pycnometer +Saturated dry sample + Water (A),gm	1853	
3	Weight of Pycnometer +Water (B),gm	1526	
4	Weight of Oven Dry Sample (D), gm	486	
I	**Specific Gravity ,G**	**2.81**	
II	**Apparent Specific Gravity**	**3.06**	
III	**Water Absorption**	**2.88%**	**Standard Requirements (0.1% to 5%)**

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Ref. No.:MC

Gradation Test on Coarse Aggregate

[IS:383-2016]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 04**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	**Date:**	01/02/2021
Sample Supplied by:	Agency / Contractor		
Material Tested:	40mm Coarse Aggregate	**Total weight taken:**	15000 gms

The test results conducted on the coarse aggregate sample are as follows:

IS. Sieve size (mm)	Wt. retained (g)	Cumulative wt. retained (g)	% Cumulative wt. retained	% Cumulative wt. passing	Specification as IS 383-2016
80	0	0	0	100	100
40	339	339	2.26	97.74	95 to 100
20	8560	8899	59.33	40.67	30 to 70
10mm	3422	12321	82.14	17.86	10 to 35
4.75	2158	14479	96.53	3.47	0 to 5
Pan	521	15000	100.00	0.00	-
Total	**15000**				-
Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.					

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TEST REPORT

Tests on Aggregate [IS:2386:1963(RA 2016)]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.:** 05	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	**Date:**	01/02/2021
Sample Supplied by:	Agency / Contractor		

Thetestresults conducted on the aggregate sample are as follows:

No.	Description	Test Method as per IS Standards	Test Result	Standard Requirements	Remarks
1	Flakiness index	IS 2386 (Part-1):1963(RA 2016)	19.40	Obtained Test Results Should Be 1% to 30%	
2	Elongation index	IS 2386(Part 1) :1963 (RA 2016)	9.89	Obtained Test Results Should be 1% to 30 %	
3	Specific Gravity	IS 2386 (Part 3): 1963 (RA 2016)	2.45	Obtained Test Results Should be 2 to 4	
4	Water Absorption	IS 2386 (Part-3) :1963 (RA 2016)	2.9%	Obtained Test Results should be 1% to 5%	
5	Aggregates Impact Value	IS 2386 (Part -4) :1963 (RA 2016)	39%	Obtained Test Results should be 1% to 60%	
Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.					

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Core Test on Covering Slab [IS:516-1959 RA2018], SP-24:1983

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	Sl. No.: 01	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.Putta Swamy Gowda	Date	04/02/2021
SampleLocation:	At Site		
Material Tested:	Drain Covering Slab Core Test (10 cms Thick)	Grade of Concrete	M-25

The test results conducted on the Drain Covering Slab Core sample are as follows:

Dia of Core D(mm)	Height of the Core H (mm)	Core Wt (Kg)	Density of Core (kg/m3)	H/D	Correction Factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm2)	Correction Factor for the Dia (Strength of Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm2)	Equivalent cube Compressive Strength (N/mm2)
50.00	100.00	0.52	2647.99	2.00	1.000	39.2	19.96	21.56	21.56	26.95
50.00	100.00	0.50	2546.15	2.00	1.000	37.9	19.30	20.85	20.85	26.06
50.00	100.00	0.54	2749.84	2.00	1.000	40.3	20.52	22.17	22.17	27.71

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Core Test on Covering Slab [IS:516-1959 RA2018], SP-24:1983

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 02**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.Putta Swamy Gowda	**Date**	04/02/2021
Sample Location:	At Site		
Material Tested:	Drain Covering Slab Core Test (10 cms Thick)	**Grade of Concrete**	**M-25**

The test results conducted on the Drain Covering Slab Core sample are as follows:

Dia of Core D(mm)	Height of the Core H (mm)	Core Wt (Kg)	Density of Core (kg/m3)	H/D	Correction Factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm2)	Correction Factor for the Dia (Strength of Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm2)	Equivalent cube Compressive Strength (N/mm2)
50.00	100.00	0.51	2597.07	2.00	1.000	37.8	19.25	20.79	20.79	25.99
50.00	100.00	0.49	2495.23	2.00	1.000	38.9	19.81	21.40	21.40	26.75
50.00	100.00	0.520	2647.99	2.00	1.000	39.2	19.96	21.56	21.56	26.95

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Core Test on Covering Slab [IS:516-1959 RA2018], SP-24:1983

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 01**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	PUTTA SWAMY GOWDA	**Date**	**10/02/2021**
Sample Supplied by:	Agency / Contractor		
Material Tested:	Drain Covering Slab Core Test (25cms Thick)	**Grade of Concrete**	**M-25**

The test results conducted on the Drain Covering Slab Core sample are as follows:

Dia of Core D(mm)	Height of the Core H (mm)	Core Wt (Kg)	Density of Core (kg/m3)	H/D	Correction Factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm2)	Correction Factor for the Dia (Strength of Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm2)	Equivalent cube Compressive Strength (N/mm2)
100.00	140.00	2.850	2591.62	1.40	0.935	167.35	21.30	23.01	21.51	26.89
100.00	130.00	2.890	2830.14	1.30	0.930	162.73	20.72	22.37	20.81	26.01
100.00	150.00	2.920	2478.25	1.50	0.940	158.94	20.23	21.85	20.54	25.68

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Tests onSoil Sample

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 01**	
Client:	Executive Engineer, project division, yelahanka zone.	**Date:**	05/02/2021
Contractor:	Sri.PuttaSwamyGowda		
Sample Supplied by:	Agency / Contractor		
Sample identification :	Sub-Grade Soil.		

Thetestresults conducted on theSoilsample are as follows:

No.	Seive Analysis (% Passing)			Compaction test (IS Heavy)		CBR (%) (4 Days Soaked)	Remarks
	Test method IS 2720 (Part4):1985 (RA 2015)			Test Method IS 2720-(part8):1988(RA 2016)		Test Method as per IS 2720-Part 16-1979	
	Gravel (%) > 4.75mm	Sand (%) 4.75 to 0.075mm	Silt and Clay(%)< 0.075	MDD (g/cc)	OMC(%)	56 blows	
1	11.4	62.6	26.6	1.88	8.3	9.5%	Satisfied Requirement

Remarks: Information / Sample furnished by the Agency / Contractor to the testing laboratory.

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Field Density test for Soilsample are as follows:

Tests on Sub Grade

TEST REPORT ON FIELD DENSITY OF EMBACKMENT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Sarajpalya and Rachenahalli Surrounding Areas in ward no. 06	Sl. No.: 02	
Client:	Executive Engineer, project division, yelahanka zone.	Date:	05/02/2021
Contractor:	Sri.PuttaSwamyGowda		
Sample :	At site		
Sample identification :	Sub-Grade Soil.		

Lab OMC(%): 8.3

LabMDD(gm/cc): 1.88

Mean weight of sand in cone(w2)	396
Volume of calibrating cylinder(V)	1176
Weight of Sand+cylinder (before pouring into the calibrating container)(W1)	6522
Mean Weight of sand+cylinder(after Pouring into the calibrating container)(w3)	4458
Weight of sand to fill calibrating container(wa=w1-w2-w3)	1668
Bulk density of sand(Ys=Wa/V)	1.42

Sl.no	Description	1	2	3
1	Chainage (m)	60 lhs	80rhs	70C
2	Weight of wet soil/GSB/WMM from hole w gm	2486	2311	2291
3	Weight of cylinder+sand before pouring(w1)	6510	6284	6394
4	Weight of cylinder+sand after pouring(w2)	4354	4268	4390
5	Weight of sand in conical portion(wc)	395	395	395

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6	Weight of sand /gsb/wmm in hole(Wh=W1-W2-Wc)	1761	1621	1609
7	volume of pit (V=Wh/Density of sand)	1246.52	1147.42	1138.93
8	Bulk density=(W/V)	1.99	2.01	2.01
9	Rapid moisture meter reading= M	9	8	8.4
10	Field moisture content MFC(%) by RMM reading	0.09	0.08	0.084
11	Field dry density FDD(g/cc)	1.83	1.86	1.86
12	Degree of compaction (%)	97.32	99.20	98.18

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PROJECT CONSULTANT

Ref. No.: MC

Gradation of Wet Mix Macadam

[MORT&H V Revision]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 01**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	**Date:**	**16/03/2021**
Sample Supplied by:	Agency / Contractor		
Material :	Wet Mix Macadam (WMM)	**Total weight taken:**	**10 kg**

Gradation Test for WMM Sample:

Sl no	Sieve Size (mm)	Wt retained (gm)	Cummulativewt retained (gm)	% Cummulativewt retained	% Fines passing	Desired Gradation as per MoRTH Specification
1	53	0	0	0	100	100
2	45	25	25	0.25	99.75	95-100
3	22.4	3210	3235	32.35	67.65	60-80
4	11.2	2570	5805	58.05	41.95	40-60
5	4.75	1296	7101	71.01	28.99	25-40
6	2.36	1040	8141	81.41	18.59	15-30
7	0.6	496	8637	86.37	13.63	8-22.
8	0.075	918	9555	95.55	4.45	0-8

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Ref. No.: MC

Gradation of Wet Mix Macadam

[MORT&H V Revision]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	Sl. No.: 02	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	Date:	16/03/2021
Sample Supplied by:	Agency / Contractor		
Material :	Wet Mix Macadam (WMM)	Total weight taken:	10 kg

Gradation Test for WMM Sample:

Sl no	Sieve Size (mm)	Wt retained (gm)	Cummulativewt retained (gm)	% Cummulativewt retained	% Fines passing	Desired Gradation as per MoRTH Specification
1	53	0	0	0	100	100
2	45	52	52	0.52	99.48	95-100
3	22.4	3670	3722	37.22	62.78	60-80
4	11.2	2095	5817	58.17	41.83	40-60
5	4.75	668	6485	64.85	35.15	25-40
6	2.36	1665	8150	81.5	18.5	15-30
7	0.6	820	8970	89.7	10.3	8-22.
8	0.075	725	9695	96.95	3.05	0-8

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Ref. No.: MC

Gradation of Wet Mix Macadam

[MORT&H V Revision]

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	Sl. No.: 03	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	Date:	16/03/2021
Sample Supplied by:	Agency / Contractor		
Material :	Wet Mix Macadam (WMM)	Total weight taken:	10 kg

Gradation Test for WMM Sample:

Sl no	Sieve Size (mm)	Wt retained (gm)	Cummulativewt retained (gm)	% Cummulativewt retained	% Fines passing	Desired Gradation as per MoRTH Specification
1	53	0	0	0	100	100
2	45	97	97	0.97	99.03	95-100
3	22.4	3170	3267	32.67	67.33	60-80
4	11.2	1832	5099	50.99	49.01	40-60
5	4.75	1625	6724	67.24	32.76	25-40
6	2.36	1235	7959	79.59	20.41	15-30
7	0.6	720	8679	86.79	13.21	8-22.
8	0.075	685	9364	93.64	6.36	0-8

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Ref. No.: MC

TEST REPORT

Tests on Aggregats
(IS 2386/1963(RA 2016))

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	Sl. No.: 64	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	Date:	18/03/2021
Sample Supplied by:	Agency / Contractor		
Material:	Wet Mix Macadam (WMM)		

Thetestresults conducted on the aggregate sample for WMM are as follows.

No.	Description	Test Result	Standard Requirements as per Morth V Revision For WMM
1	Flakiness index	20.65	Max Value for WMM for Combined Index Is 30%
2	Elongation index	8.24	

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Ref. No.:MC

TEST REPORT

Aggregates Impact Value
[IS:2386:1963(RA 2016)]

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	Sl. No : 05	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri.PuttaSwamyGowda	Date:	16/03/2021
Sample Supplied by:	Agency/Contractor		
Material:	Wet Mix Macadam (WMM)		

Thetestresults conducted on the aggregate sample of WMM are as follows:

sl no	Details	Trail No		Average	Standard Requirements as per Morth V Revision For WMM
		1	2		
1	Total weight of aggregate sample filling the cylindrical measure=W1 g	390	388	21.34	Max Value for WMM for Combined Index is 30%
2	Weight of aggregate passing 2.36 mm sieve after the test = W2 g	82	84		
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	308	304		
4	Aggregate Impact Value= percent fines 100*(W2/W1) %	21.03	21.65		

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Client	Executive Engineer, Project division Yelahanka zone, BBMP
Name of Work	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06
Name of Agency	Sri.Putta Swamy Gowda
Grade of Concrete	M-20
No. of cubes tested	3
Location	Raft
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm²)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-3	150.07 X 150.06 X 150.0	22520	09/02/2021	22/02/2021	14	8.22	620	**27.53**	**27.53**
2		150.06 X 150.04 X 150.0	22515				8.19	625	**27.76**	
3		150.08 X 150.06 X 150.0	22521				8.20	615	**27.31**	

Note:

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TEST REPORT
COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Client	Executive Engineer, Project division Yelahanka zone, BBMP
Name of Work	Improvements, Restoration to roads and drains at Dasarahalli, Sarajpalya and Rachenahalli Surrounding Areas in ward no. 06
Name of Agency	Sri.Putta Swamy Gowda
Grade of Concrete	M-20
No. of cubes tested	3
Location	Raft
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample II	150.14 X 150.13 X 150.0	22541	26/03/2021	22/04/2021	28	8.20	615	**27.28**	**27.07**
2		150.12 X 150.11 X 150.0	22535				8.21	610	**27.07**	
3		150.13 X 150.12 X 150.0	22538				8.20	605	**26.84**	

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TEST REPORT
COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Client	Executive Engineer, Project division Yelahanka zone, BBMP
Name of Work	Improvements, Restoration to roads and drains at Lingarahalli, Sonnappa and Venkatesh Surrounding Areas in ward no. 06
Name of Agency	Sri Purna Swamy Gowda
Grade of Concrete	M 20
No. of cubes tested	3
Location	Roll
Technical Reference	IS: 516: 1959 (Reaffirmed 2013)

Sl No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age of test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1		150.14 X 150.11 X 150.0	22538				8.21	570	25.28	
2		150.12 X 150.13 X 150.0	22538	19/03/2021	15/04/2021	28	8.22	575	25.50	25.50
3		150.14 X 150.16 X 150.0	22545				8.20	570	25.28	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Client	Executive Engineer, Project division Yelahanka zone, BBMP
Name of Work	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06
Name of Agency	Sri.Putta Swamy Gowda
Grade of Concrete	M-20
No. of cubes tested	3
Location	Raft
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-5	150.07 X 150.06 X 150.0	22520	10/03/2021	23/03/2021	14	8.23	619	27.49	27.49
2		150.06 X 150.04 X 150.0	22515				8.22	623	27.67	
3		150.08 X 150.06 X 150.0	22521				8.25	615	27.31	

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TEST REPORT
COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Client	Executive Engineer, Project division Yelahanka zone, BBMP
Name of Work	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06
Name of Agency	Sri.Putta Swamy Gowda
Grade of Concrete	M-20
No. of cubes tested	3
Location	Wall
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm²)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-2	150.07 X 150.06 X 150.0	22520	04/02/2021	17/02/2021	14	8.22	621	**27.58**	**27.61**
2		150.06 X 150.04 X 150.0	22515				8.19	625	**27.76**	
3		150.08 X 150.06 X 150.0	22521				8.20	619	**27.49**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Client	Executive Engineer, Project division Yelahanka zone, BBMP
Name of Work	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06
Name of Agency	Sri.Putta Swamy Gowda
Grade of Concrete	M-20
No. of cubes tested	3
Location	Wall
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.08 X 150.03 X 150.0	22517	02/04/2021	29/04/2021	28	8.21	630	**27.98**	**28.20**
2		150.09 X 150.07 X 150.0	22524				8.20	635	**28.19**	
3		150.06 X 150.04 X 150.0	22515				8.19	640	**28.43**	

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Client	Executive Engineer, Project division Yelahanka zone, BBMP
Name of Work	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06
Name of Agency	Sri.Putta Swamy Gowda
Grade of Concrete	M-20
No. of cubes tested	3
Location	Wall
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.02 X 150.03 X 150.0	22508	24/03/2021	20/04/2021	28	8.19	620	**27.55**	**27.76**
2		150.04 X 150.06 X 150.0	22515				8.20	625	**27.76**	
3		150.03 X 150.04 X 150.0	22511				8.21	630	**27.99**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Client	Executive Engineer, Project division Yelahanka zone, BBMP
Name of Work	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06
Name of Agency	Sri.Putta Swamy Gowda
Grade of Concrete	M-20
No. of cubes tested	3
Location	Wall
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-4	150.08 X 150 X 150.0	22523	05/04/2021	18/04/2021	14	8.22	625	**27.75**	**27.50**
2		150.07 X 150 X 150.0	22524				8.20	620	**27.53**	
3		150.06 X 150 X 150.0	22515				8.19	613	**27.23**	

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BITUMEN CONTENT & GRADATION

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.:** 01	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri .PUTTA SWAMY GOWDA	**Date:**	26/06/2021
Sample Supplied by:	Agency/Contractor		
Material:	Bituminous Concrete		

The test results conducted on the bitumen content determination are as follows:

sl no	Details	Trail No		Average	Standard Requirements as per Morth V Revision For Bitumuin
		1	2		
1	Weight of Mixture before Test, gm	500	500	5.8	For Grade 2 Bitumen Content 5.8 min
2	Weight of Mixture after Test, gm	470	472		
3	Weight of Asphalt and Mineral matter Extracted, gm	30	28		
4	Weight of Mineral Matter, gm	-	-		
5	Weight of Ash, gm	-	-		
6	Weight of Bitumen Extracted, gm (corrected)	30	28		
7	Bitumen content in %	6.0	5.6		

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PROJECT CONSULTANT

TEST REPORT

GRADATION AFTER EXTRACTION

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 02**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri. PUTTA SWAMY GOWDA	**Date:**	**26/06/2021**
Sample Supplied by:	Agency/Contractor		
Material:	Bituminous Concrete		

sl no	Sieve Size	Percentage Passing(%)		Standard Requirements as per Morth 500.10
		Sample 1	Sample 2	
1	37.5	100	100	100
2	26.5	97.5	95.8	90-100
3	19	86.5	85.1	71-95
4	13.2	58.5	59.9	56-80
5	4.75	49.9	48.2	38-54
6	2.36	31.8	32.6	28-42
7	0.3	18.9	15.8	7-21
8	0.075	5.8	4.3	2-8

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DETERMINATION OF PRIME COAT (SPREAD RATE)

TEST REPORT

Project Name:	Improvements, Restoration to roads and drains at Dasarahalli, Saraipalya and Rachenahalli Surrounding Areas in ward no. 06	**Sl. No.: 01**	
Client:	Executive Engineer, project division, yelahanka zone.		
Contractor:	Sri. PUTTA SWAMY GOWDA	**Date:**	**26/06/2021**
Sample Supplied by:	Agency/Contractor		
Material:	Bituminous Concrete		

The test results conducted on the bitumen content determination are as follows:

Determination	Unit	Test No	
		1	2
Size of plate (mm)	Mt	0.45 X 0.45	0.45 X 0.45
Area of plate (a)	Sq.m	0.2025	0.2025
Intial Wt of empty plate (b)	Kg	1.628	1.63
Final weight of plate after application of prime/tack coat (c)	Kg	1.689	1.683

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Weght of prime / tack coat (d=c-b)	Kg	0.0610	0.0530
Rate of spread of prime /tack coat	Kg/Sq.m	0.301	0.262
Average	Kg/Sq.m	0.281	
Specified limit	**Kg/Sq.m**	**0.25Kg/Sq.m**	

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